The AFMC Technology Enterprise

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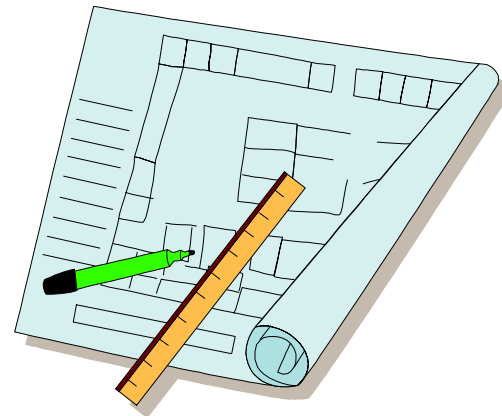**email: michael.mcmillan@ wpafb.af.mil**

PURPOSE

- To provide an understanding of how the Communication and Information (C&I) Utility Vision will be achieved through the AFMC Enterprise Intranet (AEI)

AF High-Level Strategic Direction

- **Secy AF Speech to AFCEA**
  - **Current AF IT infrastructure environment**
    - **Decentralized purchasing and system designs**
    - **Environment is:**
      - **Inappropriate for the work AF must do**
      - **Current IT infrastructure is inadequate for the number of personnel trained to do AF tasks**
  - **Successful aerospace operations depend on:**
    - **A network and information-centric joint battlefield**
    - **An AF Information Enterprise system, which:**
      - **Enhances ability to provide C4I through information superiority**
      - **Provides seamless core services for functional systems and users**

Secy AF IT Summit

- **Resulted in the following action items:**
  - **Create an AF Portal***
  - **Create an AF-Wide Directory***
  - **Integrate CIO Management Board into AF Corporate Board Structure**
  - **Consolidate e-mail servers***
  - **Determine an IT funding strategy**
  - **Integrate MAJCOM CIO input into CIO Management Board Process**
  - **Write an AF Enterprise CONOPS**
- **Action items to be accomplished by Corona Fall 2000 (* indicates highest priorities)**

Excerpt - AF Enterprise CONOPS Initiatives

- **Near-term Spiral 1 (next 1-6 months)**

    - **Focus:**
        - **Consolidate AF servers (e-mail consolidation)**
        - **Establish AF Portal**
        - **Establish AF Directory (emphasis - white pages directory)**
        - **Develop AF Enterprise Mgmt Policy within CIO construct**
        - **Centralize a network applications battlelab**
        - **Standardize decision quality enterprise metrics**

AF Enterprise CONOPS (Con't)

- **Mid-term, Spirals 2-4 (next 6-18 months):**

  - **Focus:**
    - **Consolidate AF functional and web servers**
    - **Add AF Portal Capabilities**
    - **Establish AF Directory (emphasis on integrated security access mechanisms)**
    - **Maintain/enforce robust system architecture**
    - **Provide additional bandwidth to meet increasing contingency demands**
    - **Accelerate CITS program schedule in FY2003 APOM**
    - **Establish more assured/deliberate IT funding process**

AF Enterprise CONOPS (Cont'd)

- **Long-term, Spiral 5 (18-60 months)**

  - **Focus:**
    - **Converge voice, video, and data transport systems**
    - **Migrate point-to-point communications to the enterprise**
    - **Provide standard work flow mgmt system**
    - **Consolidate enterprise network administration**
    - **Provide bandwidth on demand**
    - **Implement DOD search engine for data mining**
    - **Continue CITS upgrade and funding**
    - **Develop self-defending/healing networks**
    - **Consolidate voice, video, data help desks**
    - **Merge SIPRNET and NIPRNET**

Impact to CIO Support

- **Paramount to success of AF Enterprise CONOPS initiatives:**
  - **Standard, institutionalized policies**
  - **Processes that build teamwork between CIOs and functionals**
  - **MAJCOM awareness to effectively implement CONOPS initiatives**
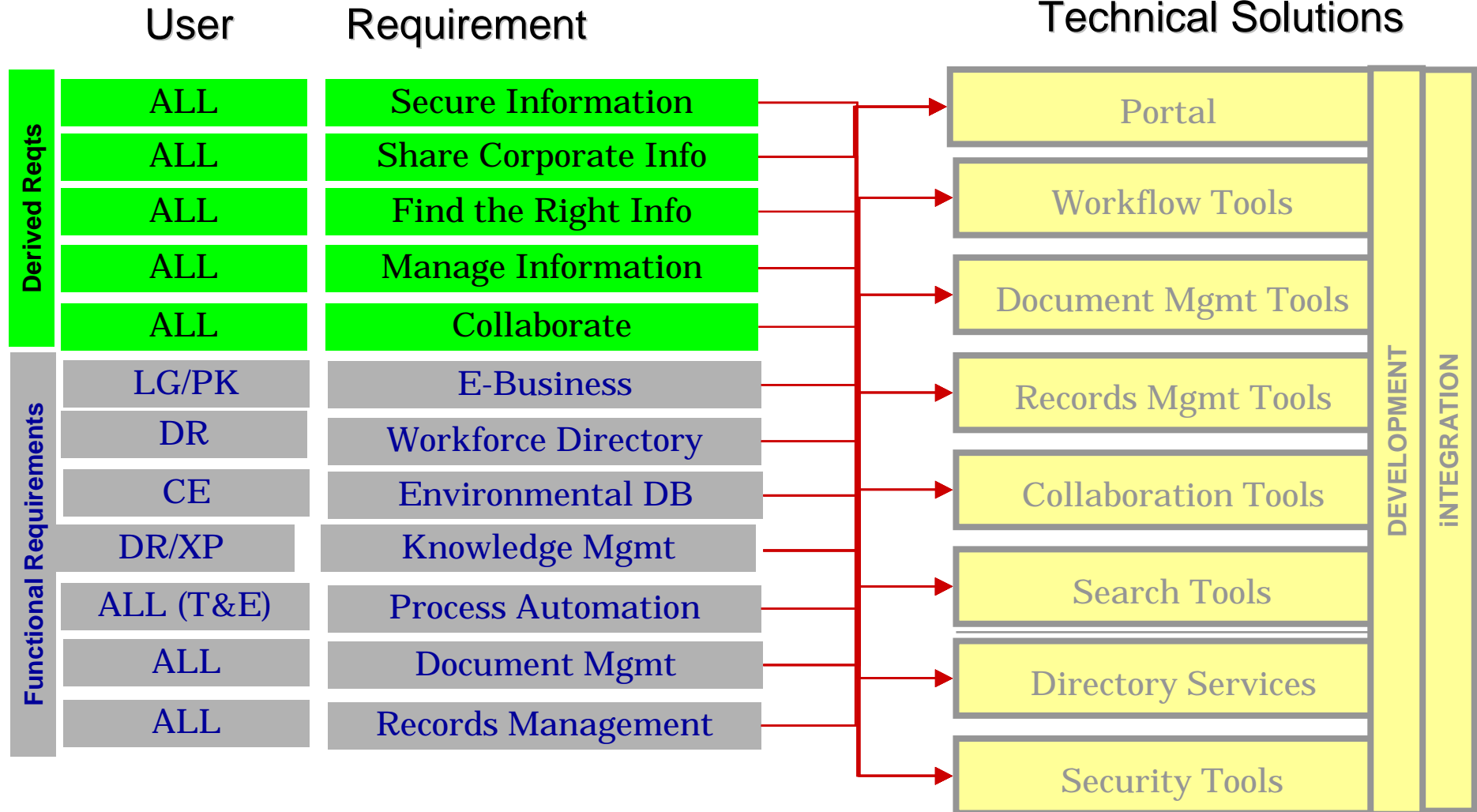
AEI OPERATIONAL NEED STATEMENT

- Leverage Information Technology to provide the AFMC workforce a giant leap forward in how they share, use, find and produce information, collaborate, perform tasks, and schedule their work in support of the AFMC mission

 ……Gen Babbitt, "Leading Edge", April 1998
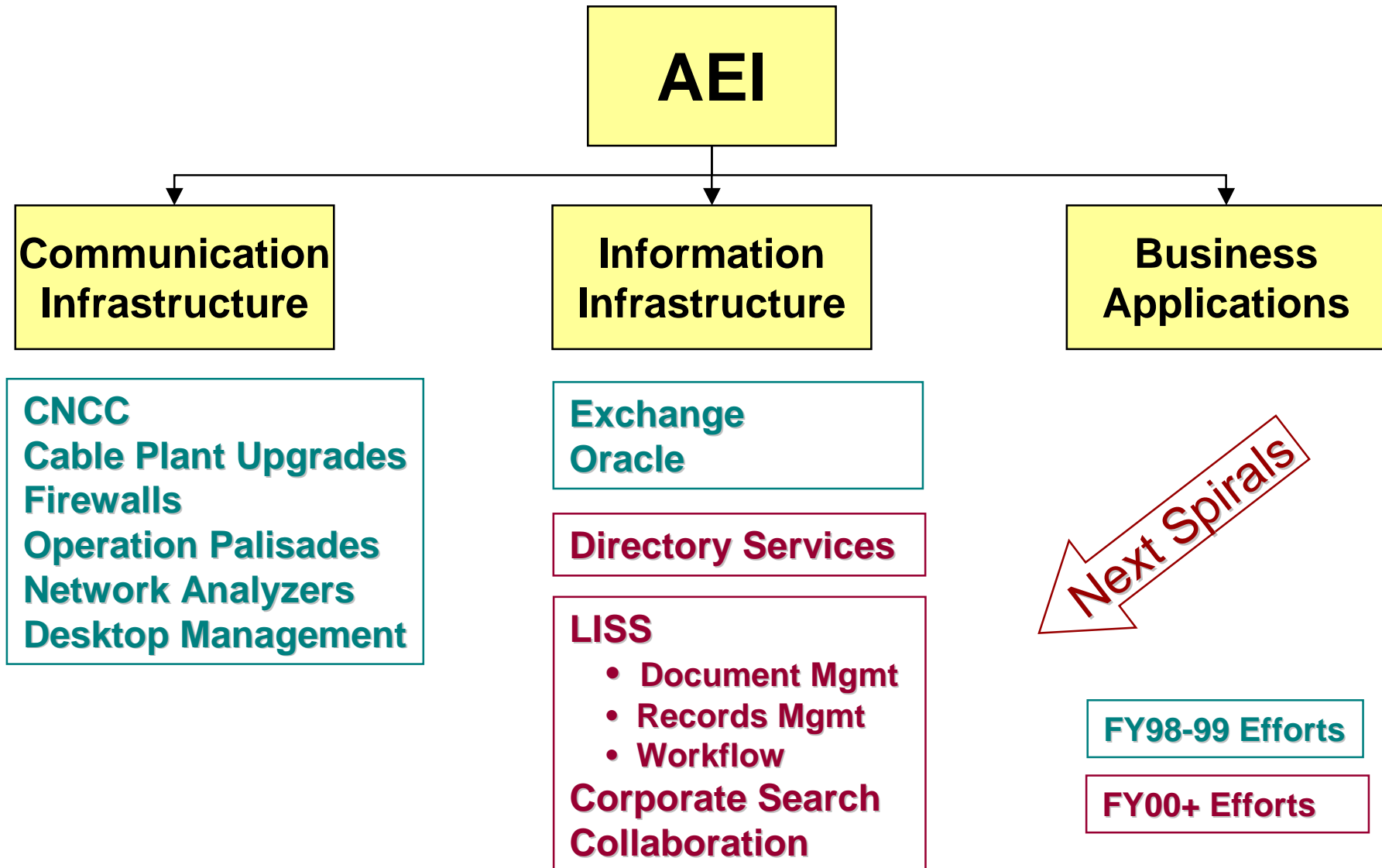
MAPPING AEI REQUIREMENTS TO INFORMATION TECHNOLOGY TOOLS

JTEG

AEI Architectures and Technical Solutions

User	Requirement

Derived Reqts

User	Requirement
ALL	Secure Information
ALL	Share Corporate Info
ALL	Find the Right Info
ALL	Manage Information
ALL	Collaborate

Functional Requirements

User	Requirement
LG/PK	E-Business
DR	Workforce Directory
CE	Environmental DB
DR/XP	Knowledge Mgmt
ALL (T&E)	Process Automation
ALL	Document Mgmt
ALL	Records Management

Technical Solutions:
- Portal
- Workflow Tools
- Document Mgmt Tools
- Records Mgmt Tools
- Collaboration Tools
- Search Tools
- Directory Services
- Security Tools

DEVELOPMENT

INTEGRATION

AEI WORK BREAKDOWN STRUCTURE

AEI

Communication Infrastructure

Information Infrastructure

Business Applications

**CNCC
Cable Plant Upgrades
Firewalls
Operation Palisades
Network Analyzers
Desktop Management**

**Exchange
Oracle**

Directory Services

LISS
- **Document Mgmt**
- **Records Mgmt**
- **Workflow**

**Corporate Search
Collaboration**

Next Spirals

FY98-99 Efforts

FY00+ Efforts

OPERATIONAL USER PORTAL INTO THE AEI

Welcome Gary Brooks to the AFMC Enterprise Intranet!

My Personal Space

- **Workflow**
  - 4 Tasks/Suspense are Open
  - 1 is open due within the next 24 hours
- **Document Management**
- **Records Management**

Collaboration
- **Discussion Groups**
- **Bulletin Board**
- **Electronic Meeting**

Document/Folder Monitoring
- The file "FY00 POM Submission" has been modified
- The folder "AFMC PKI" has been modified

My News

AFMC News

Bus. Area News

Org. News

Base News

Common AFMC Space

Search: [   ]

My Applications

Business Area Applications

AFKM System

Base Applications

EMIS

ESC CenterNet

My Individual Applications

SCS

WSMIS

Timeline for Achieving the C&I Utility Through the AEI Modernization Efforts

Yesterday → AEI Modernization Efforts → **Tomorrow's Vision**

Stove Pipe Solutions

FY98-FY99

Centralized the Base Network Control Centers !

Deployed Common Personal E-mail Command-wide !

Deployed the Exchange GAL and replicated !

Procured Tivoli for Desktop Management !

Awarded Corporate Oracle Contract !

Established the Certificate to Operate Process and Policy!

FY00

Deploying the Enterprise Desktop Management tools procured in FY99

Planning and preparing the network infrastructure for Windows 2000 and Active Directory

Evaluating IT tools to support information management, collaboration, electronic business, etc.

Planning for AFMC PKI and establishing an AFMC Pilot

FY01+

Workflow

Information Management

Collaboration

Directory Services

Information Archive

Managed Corporate Knowledge Base

Web-integrated applications

E-Business

C&I Utility

To meet on demand the communications and information needs of AFMC employees and the warfighter Any Where Any Time Full Operational Capability - 2005

WHAT DOES IT TAKE TO BUILD THE NEXT SPIRAL OF THE AEI?

- Tool Set (Workflow, Document Mgmt Application, Records Mgmt Application, Search Tool, Web Development Tools, Database)
- Development
  - Portal
  - Business Rules
  - User Profile Database
  - Partner with Business Areas and development organizations for a data solution for business applications
- Integration
  - Integration of Corporate Solutions With Directory Services (Exchange GAL, etc.)
  - Integration of Web-enabled Business Applications (Legacy and New) into the Portal Environment

SUMMARY

- AFMC is well underway on building an AFMC Enterprise Intranet (AEI)
  - A strong foundation has been built
    - Network upgrades
    - Corporate e-mail implementation
    - Procurement of a desktop management tool

- A focus is now being placed on the Enterprise Information Infrastructure piece of an AEI
  - Examples of initial functionality includes
    - Collaboration
    - Information Management
    - Corporate Search Capability
    - Directory Services